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FEB 03 2003
PATENT & TRADEMARK OFFICE

Applicants: Petros A. Ioannou, et al.
Serial No.: 09/439,055 Confirmation No. 183
Filed: November 12, 1999
Title: Servo Control Apparatus and Method ...
Attorney: William H. Wright Tel: (213) 337-6700
Docket No.: 81858.0004
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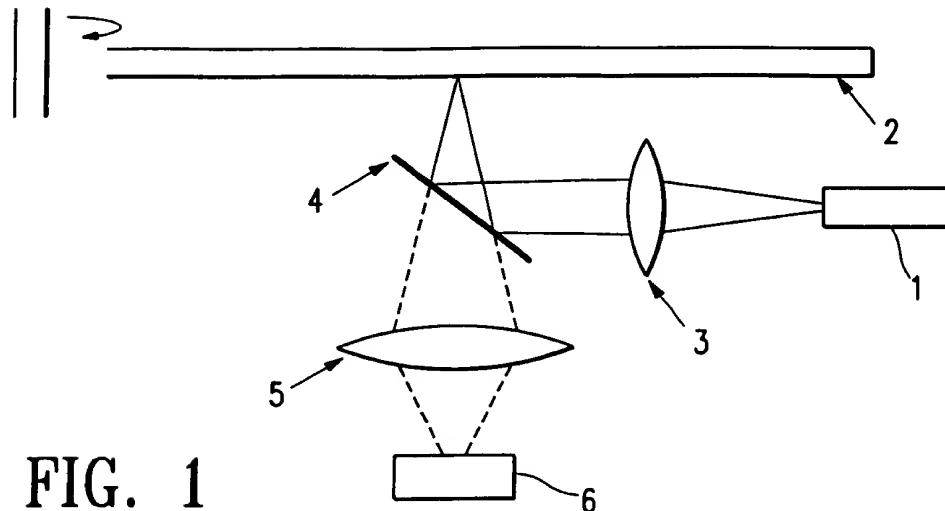


FIG. 1
PRIOR ART

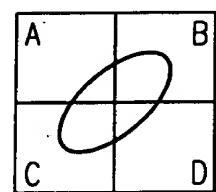


FIG. 2
PRIOR ART

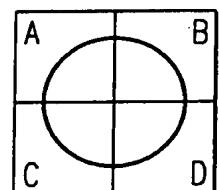


FIG. 3
PRIOR ART

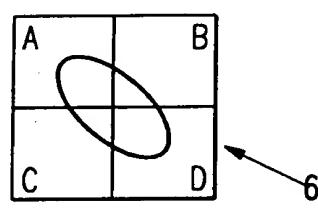
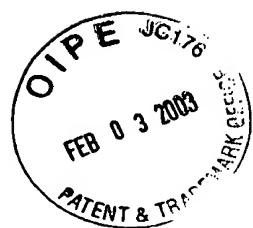


FIG. 4
PRIOR ART



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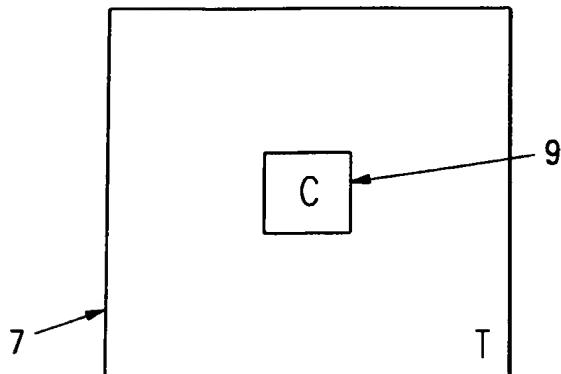


FIG. 5
PRIOR ART

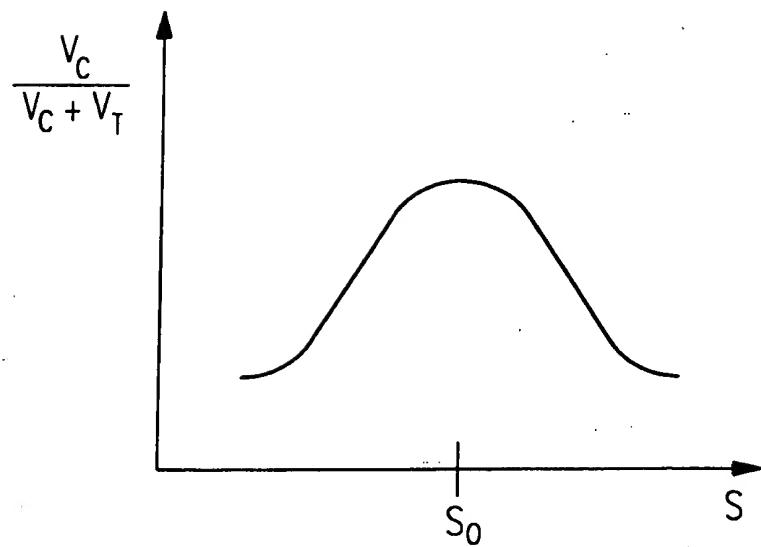


FIG. 6
PRIOR ART



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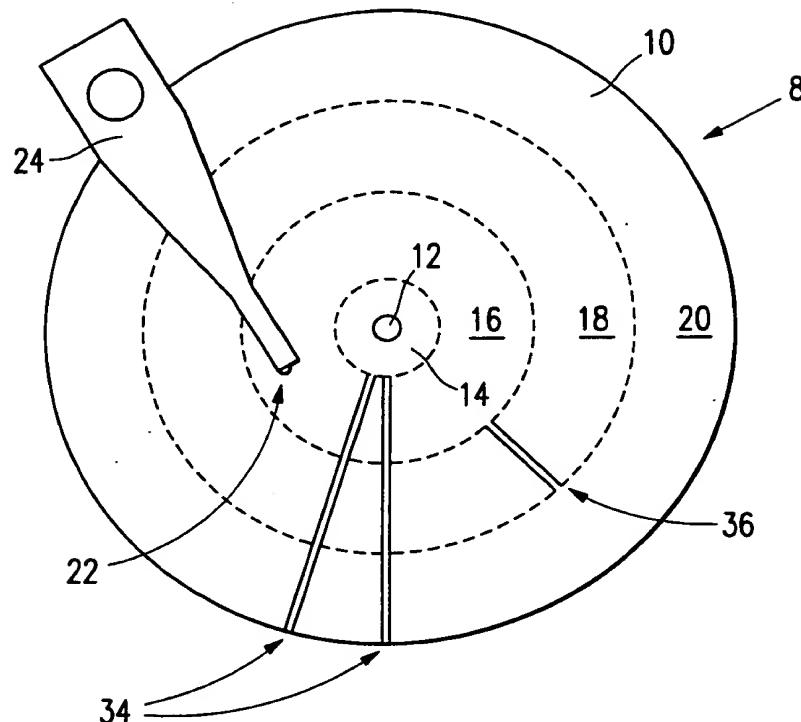


FIG. 7 PRIOR ART

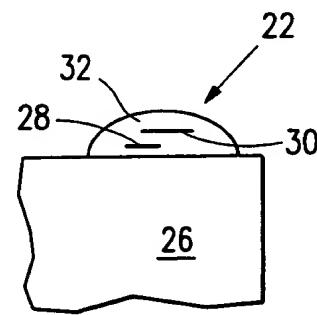


FIG. 8
PRIOR ART



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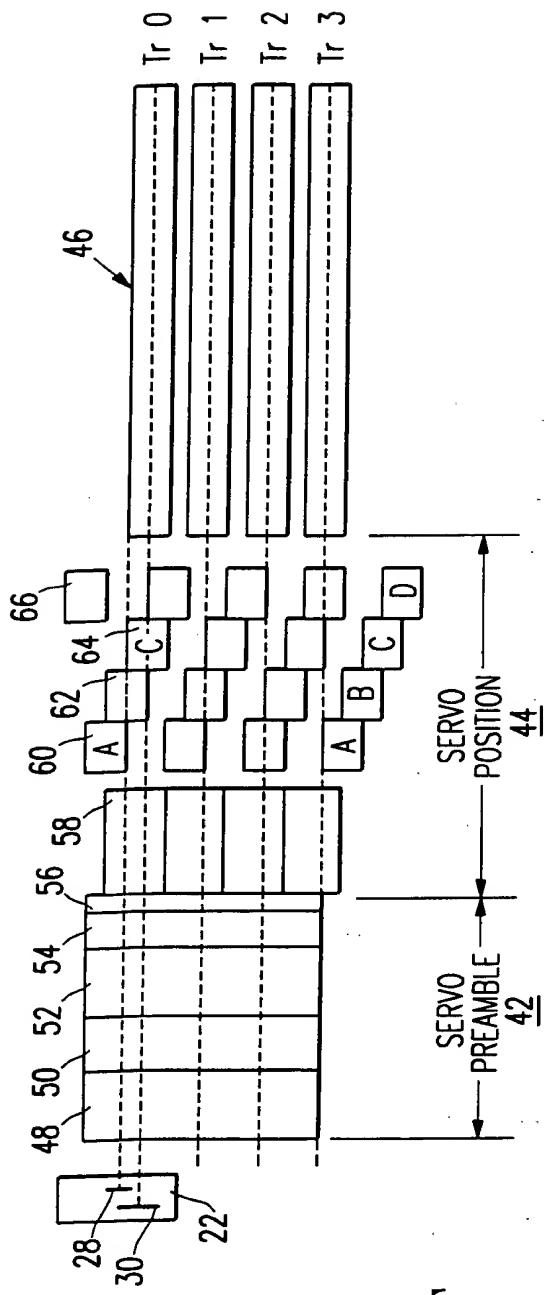


FIG. 9A
 PRIOR ART
 (WRITING)

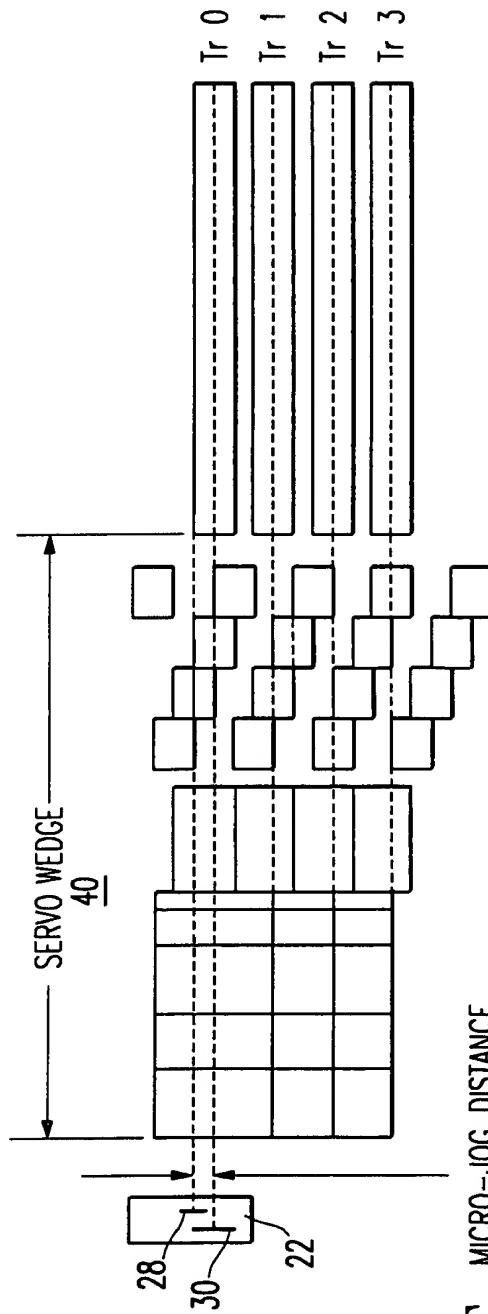


FIG. 9B (READING) **PRIOR ART** MICRO-JOG DISTANCE



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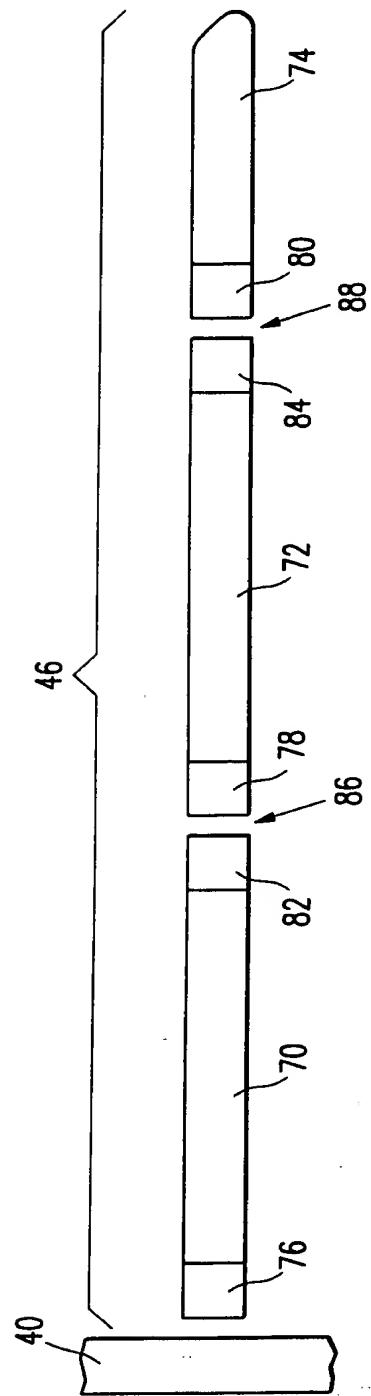
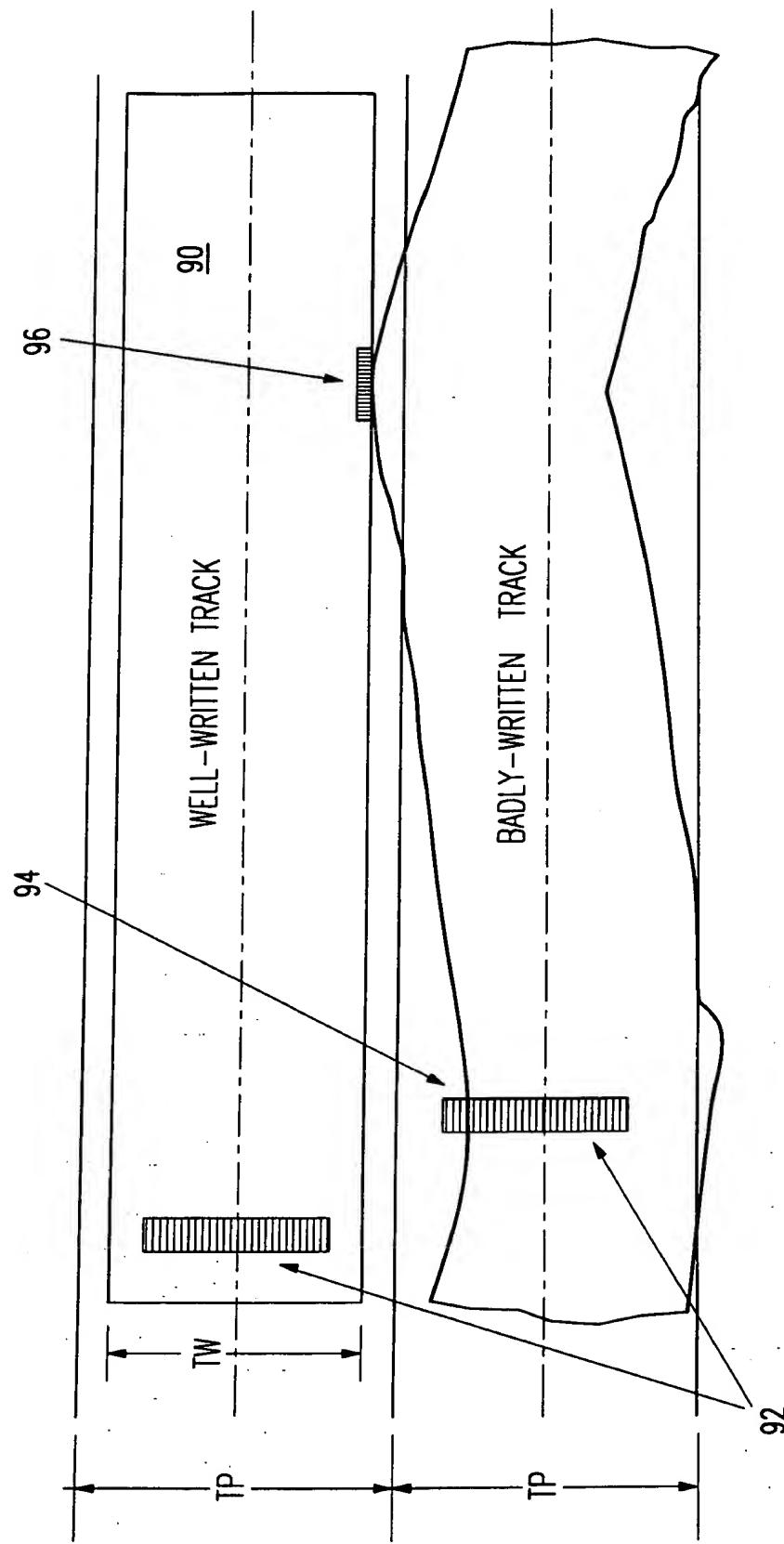


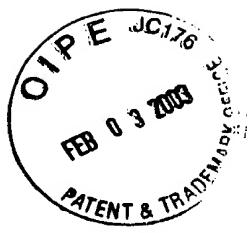
FIG. 10
PRIOR ART

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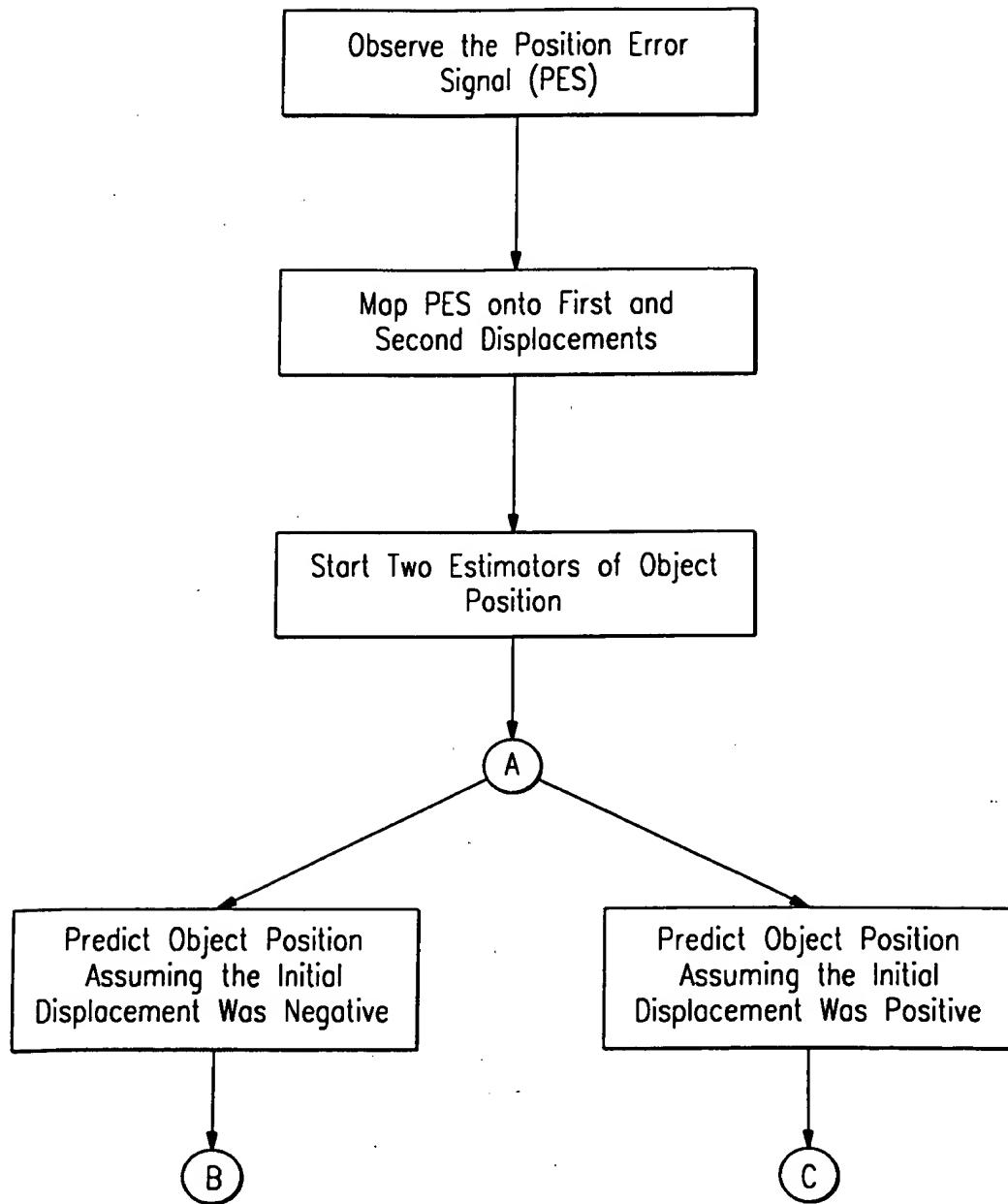


FIG. 12A



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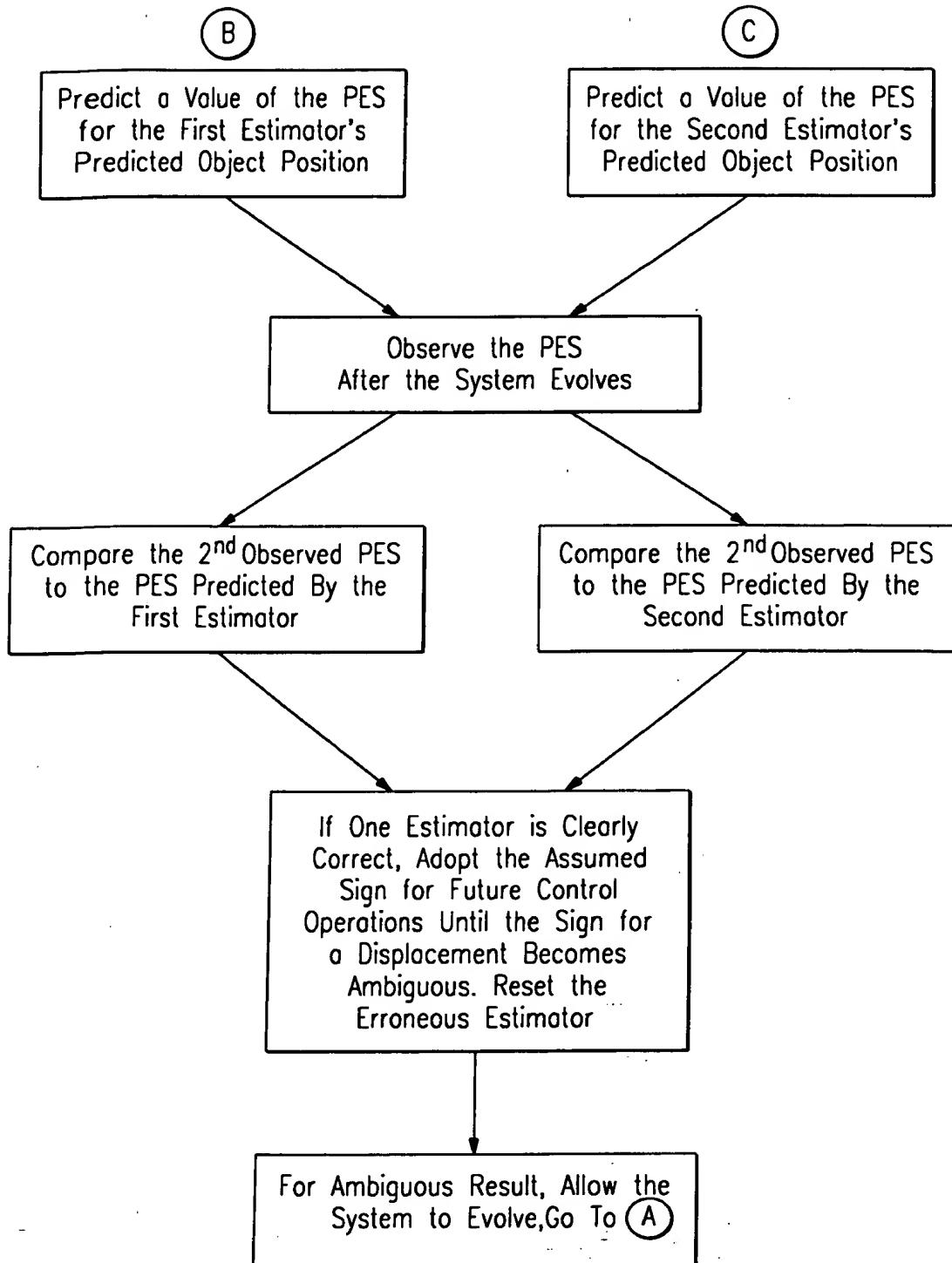


FIG. 12B

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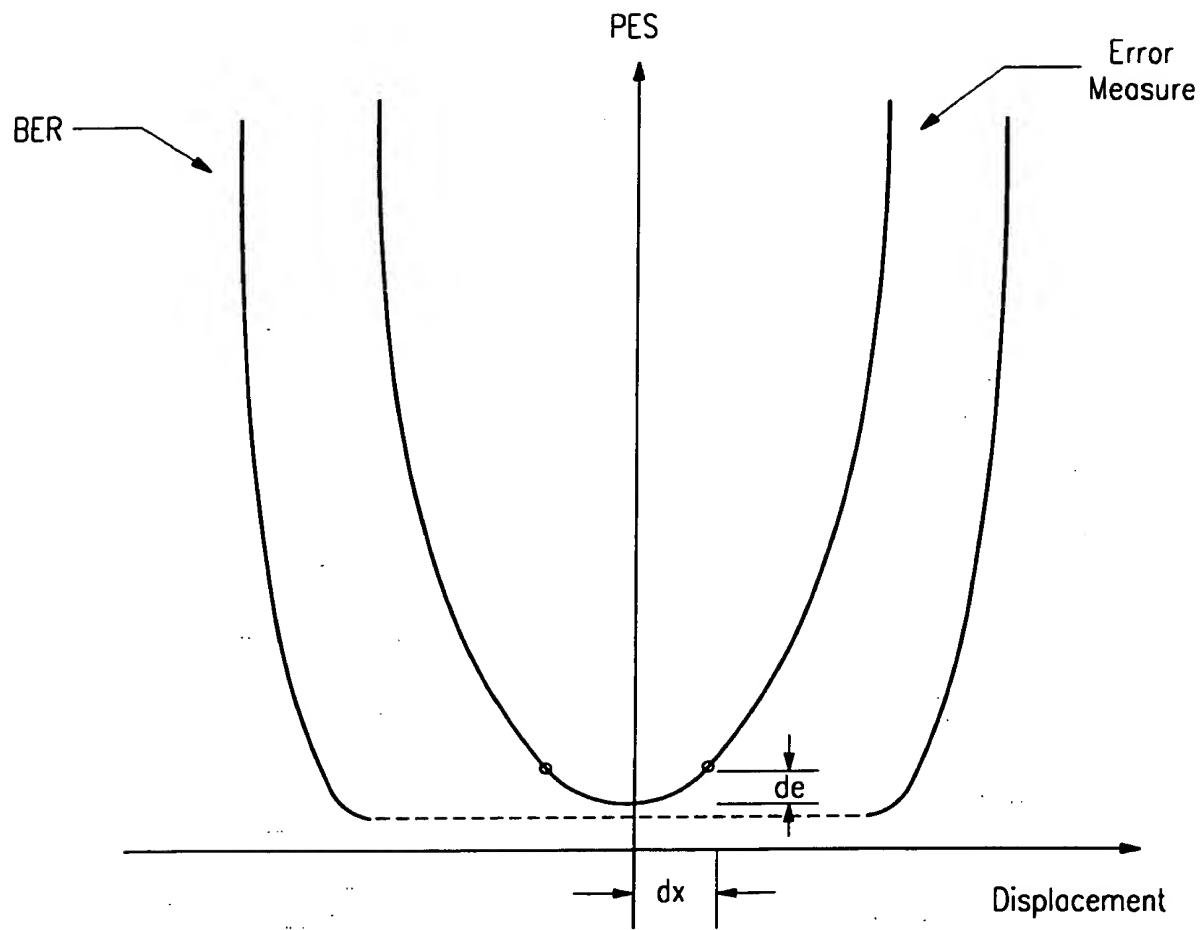


FIG. 13

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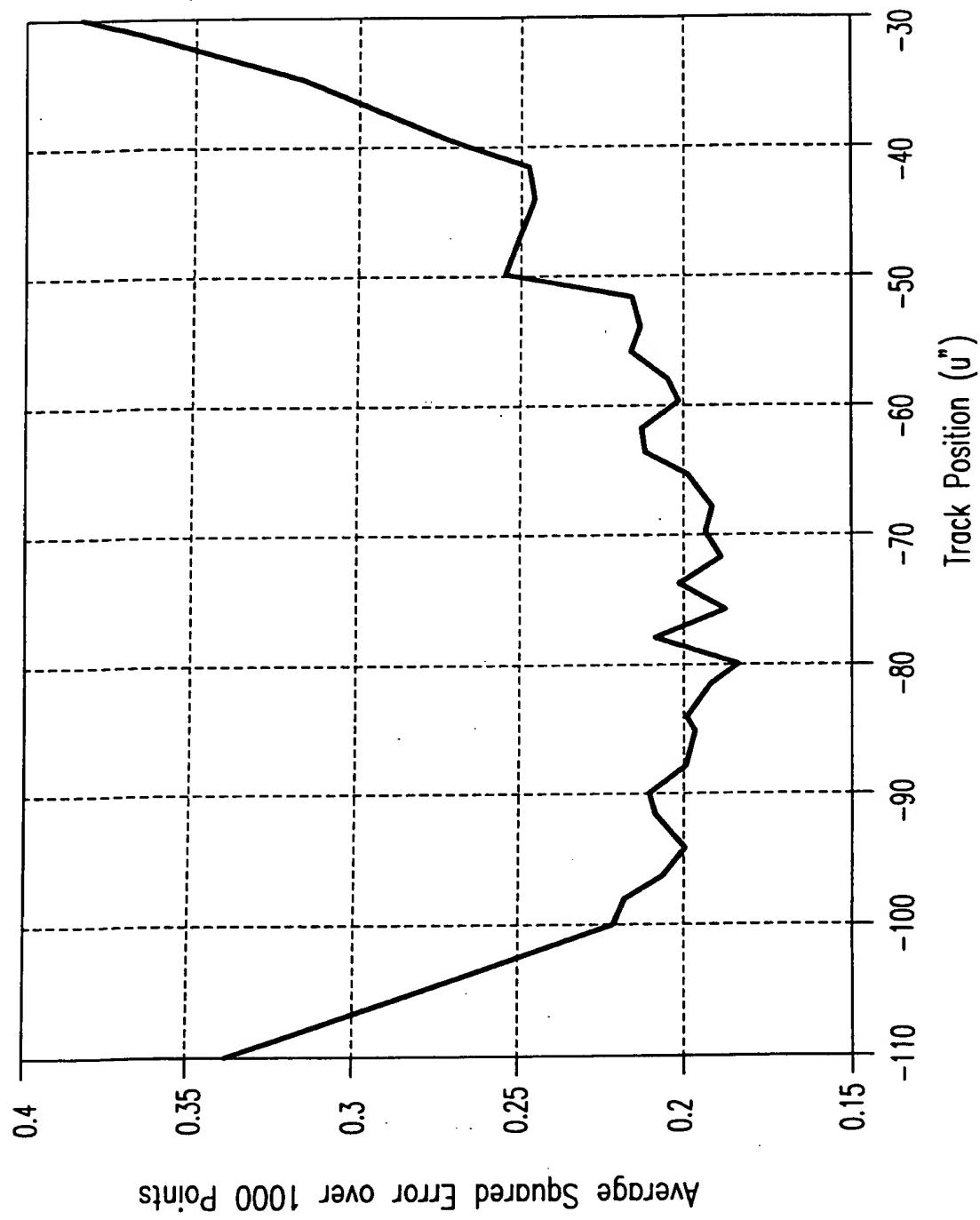


FIG. 14



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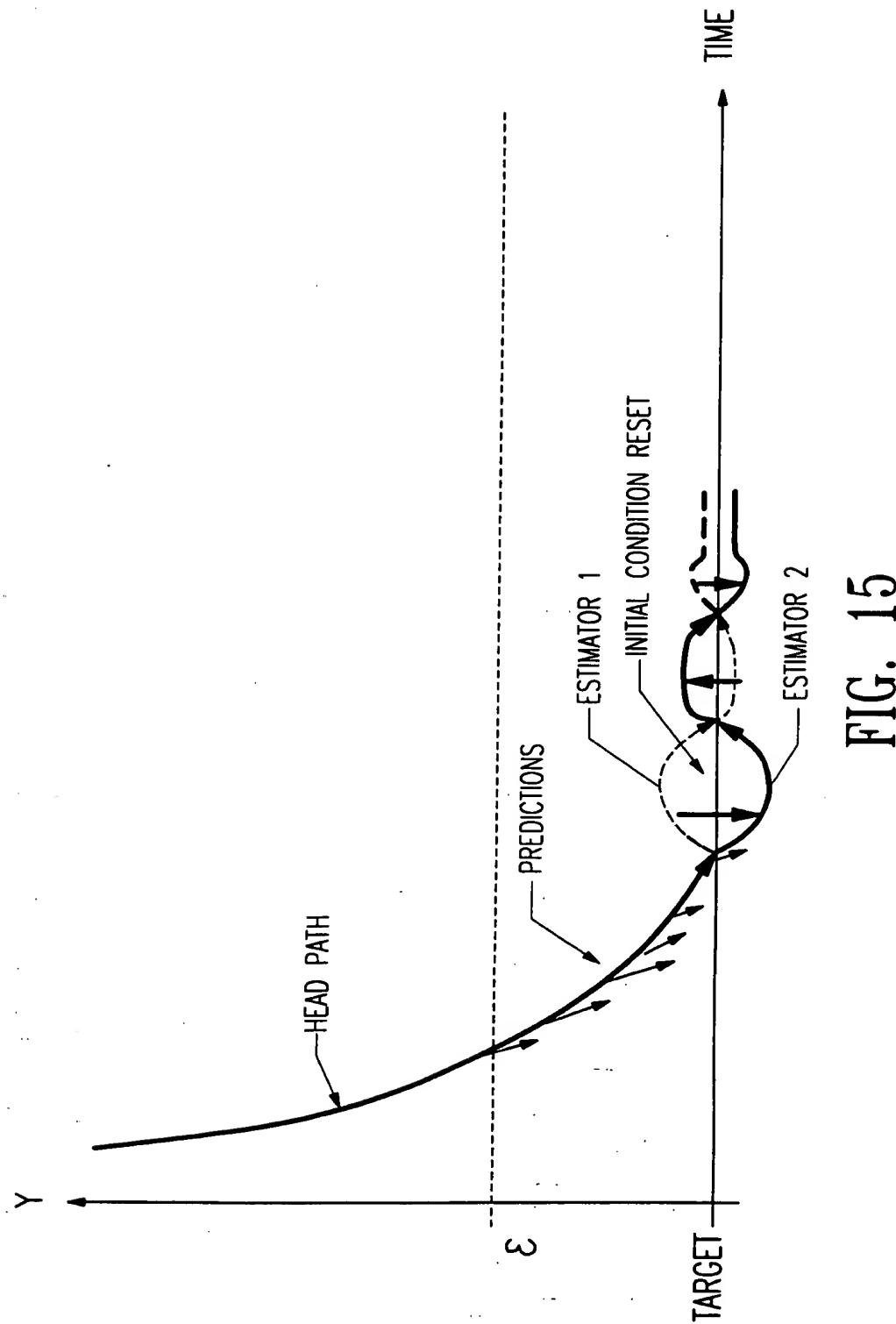


FIG. 15

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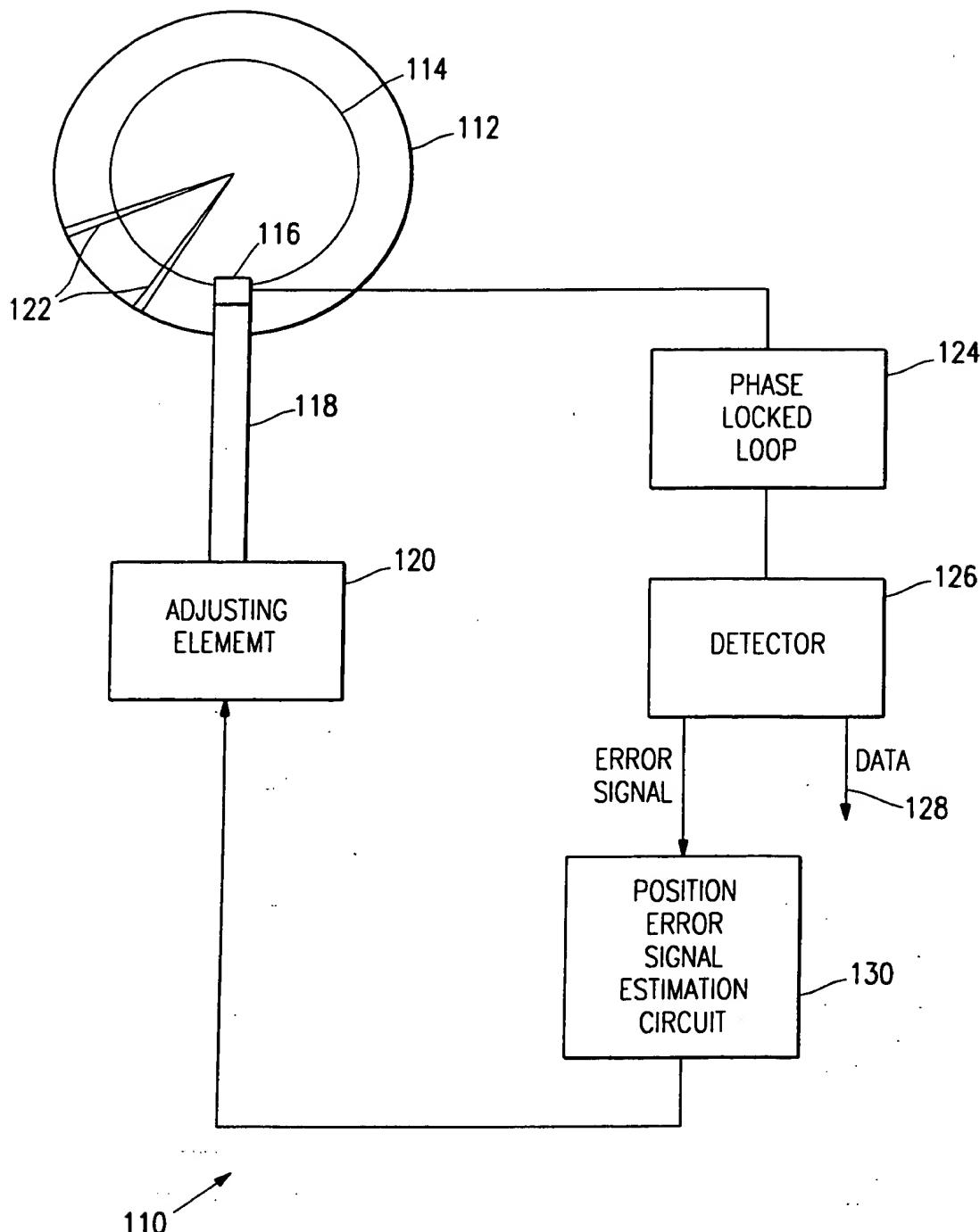


FIG. 16



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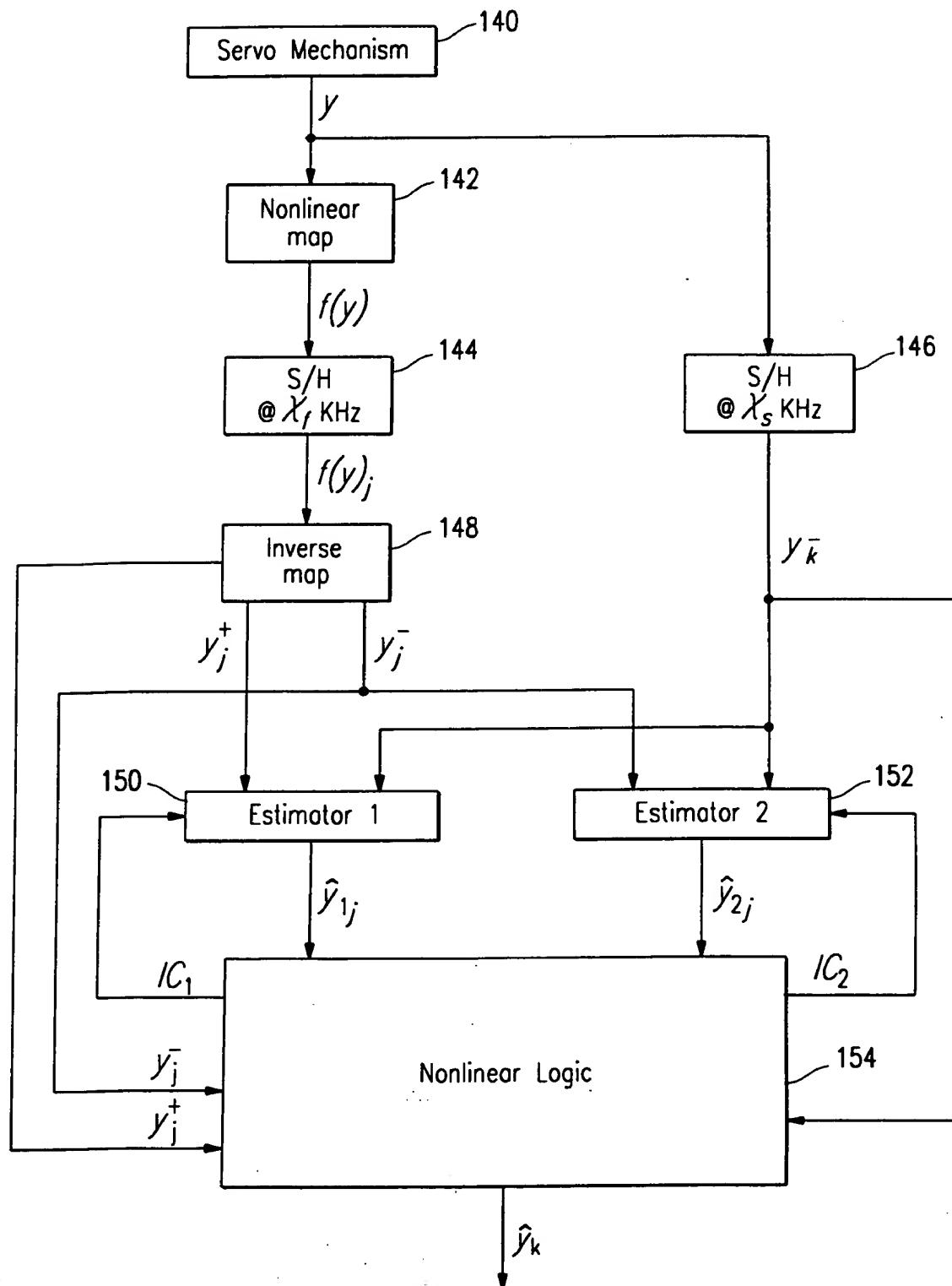


FIG. 17



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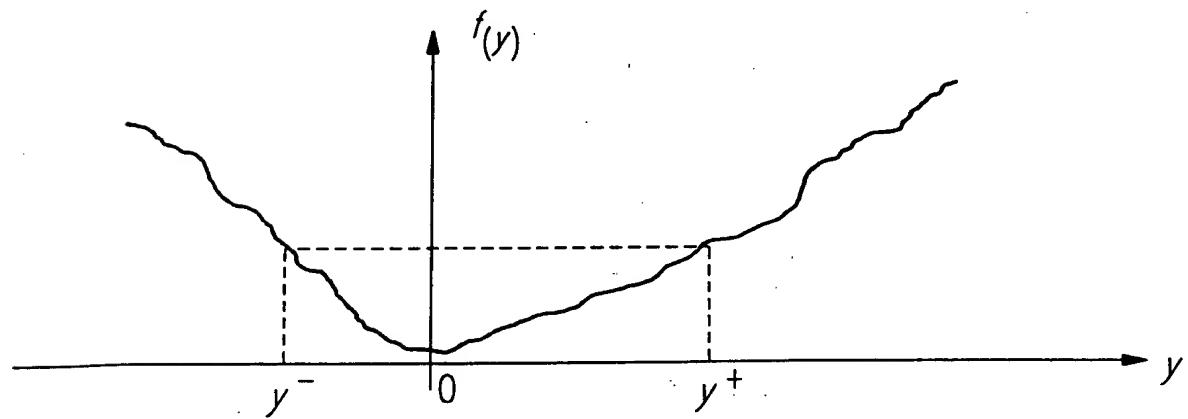


FIG. 18



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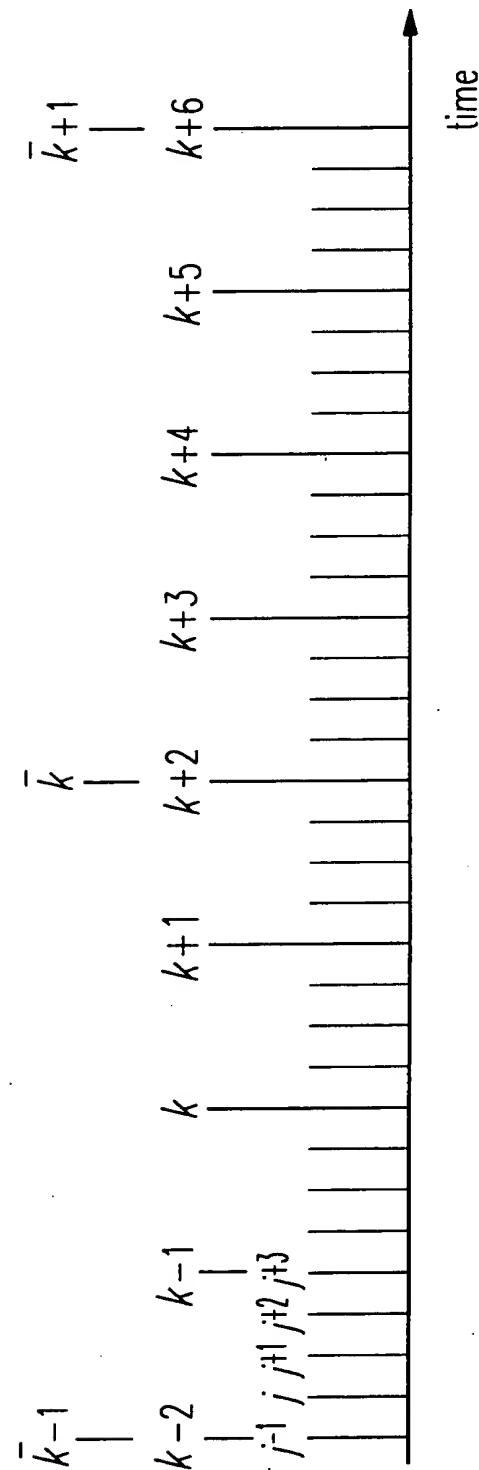


FIG. 19

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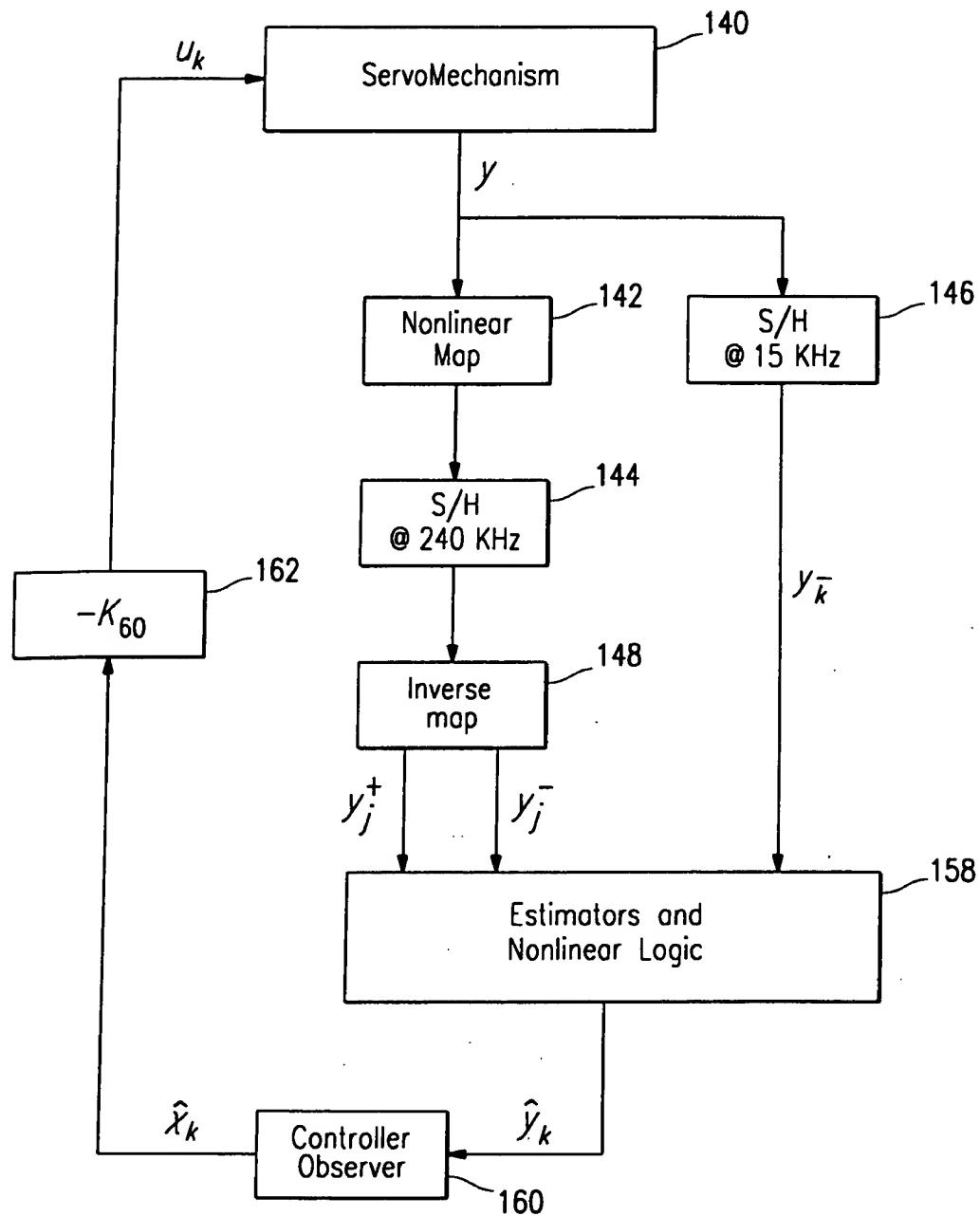
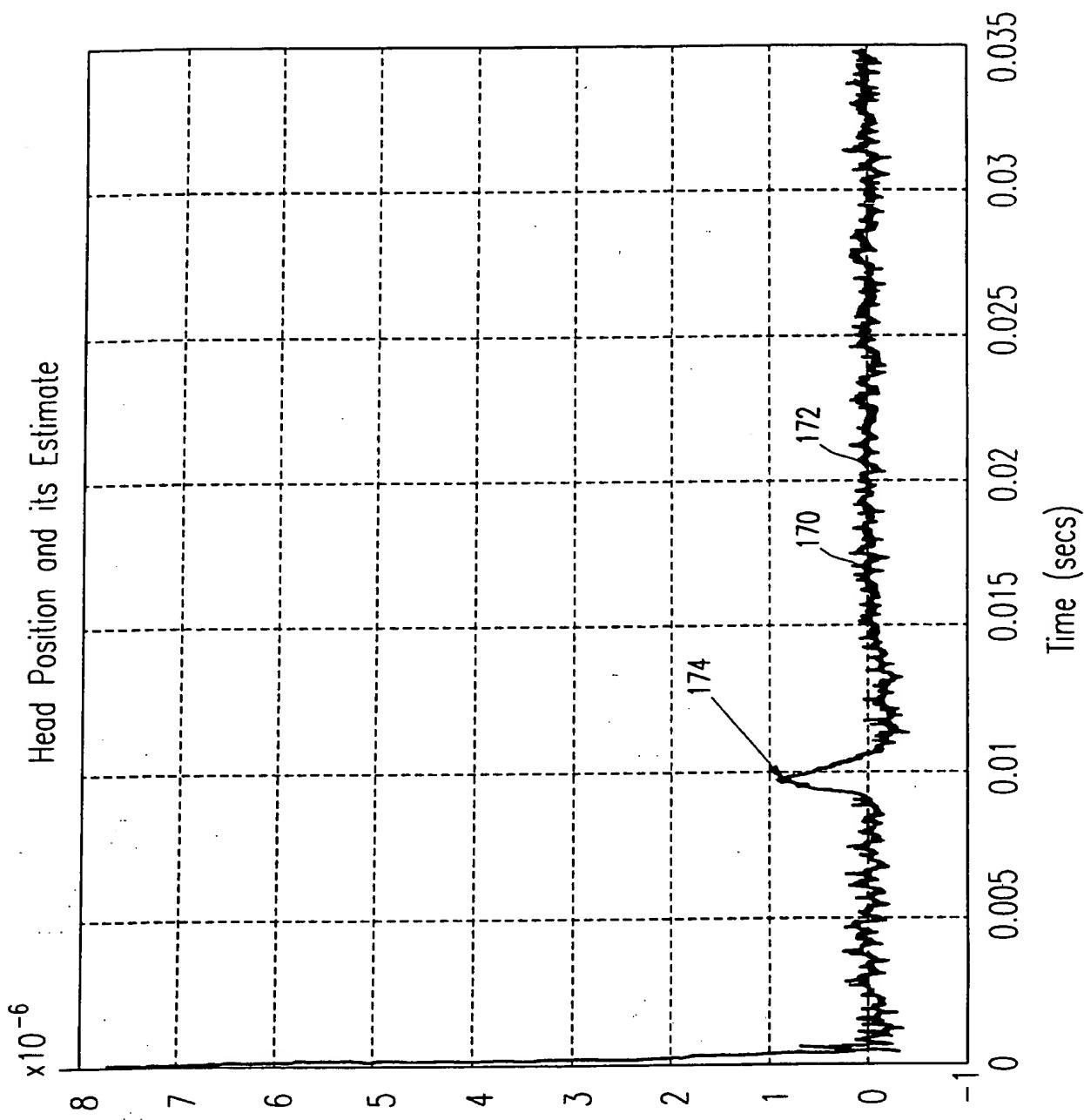


FIG. 20

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FIG. 21

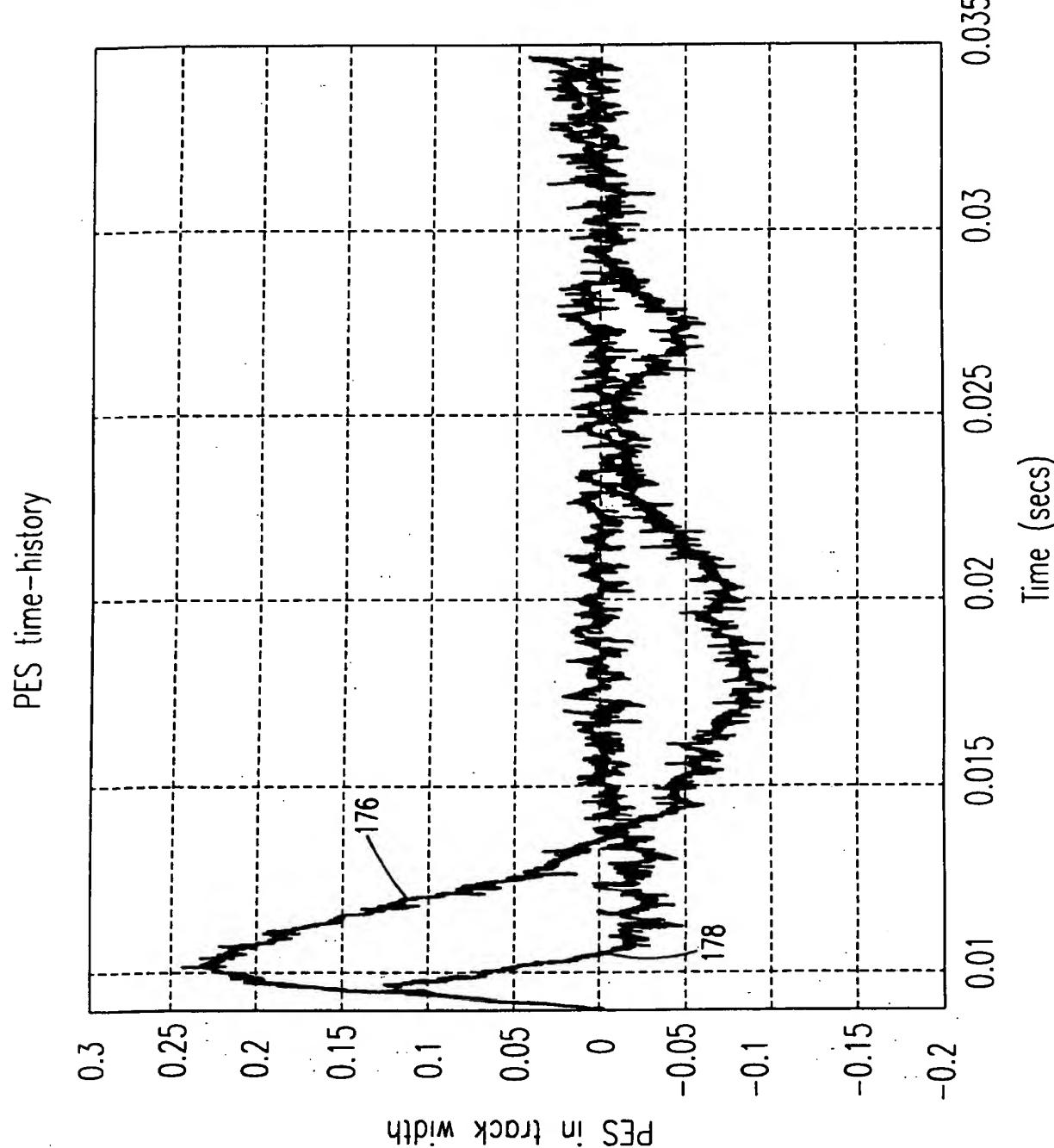


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FIG. 22





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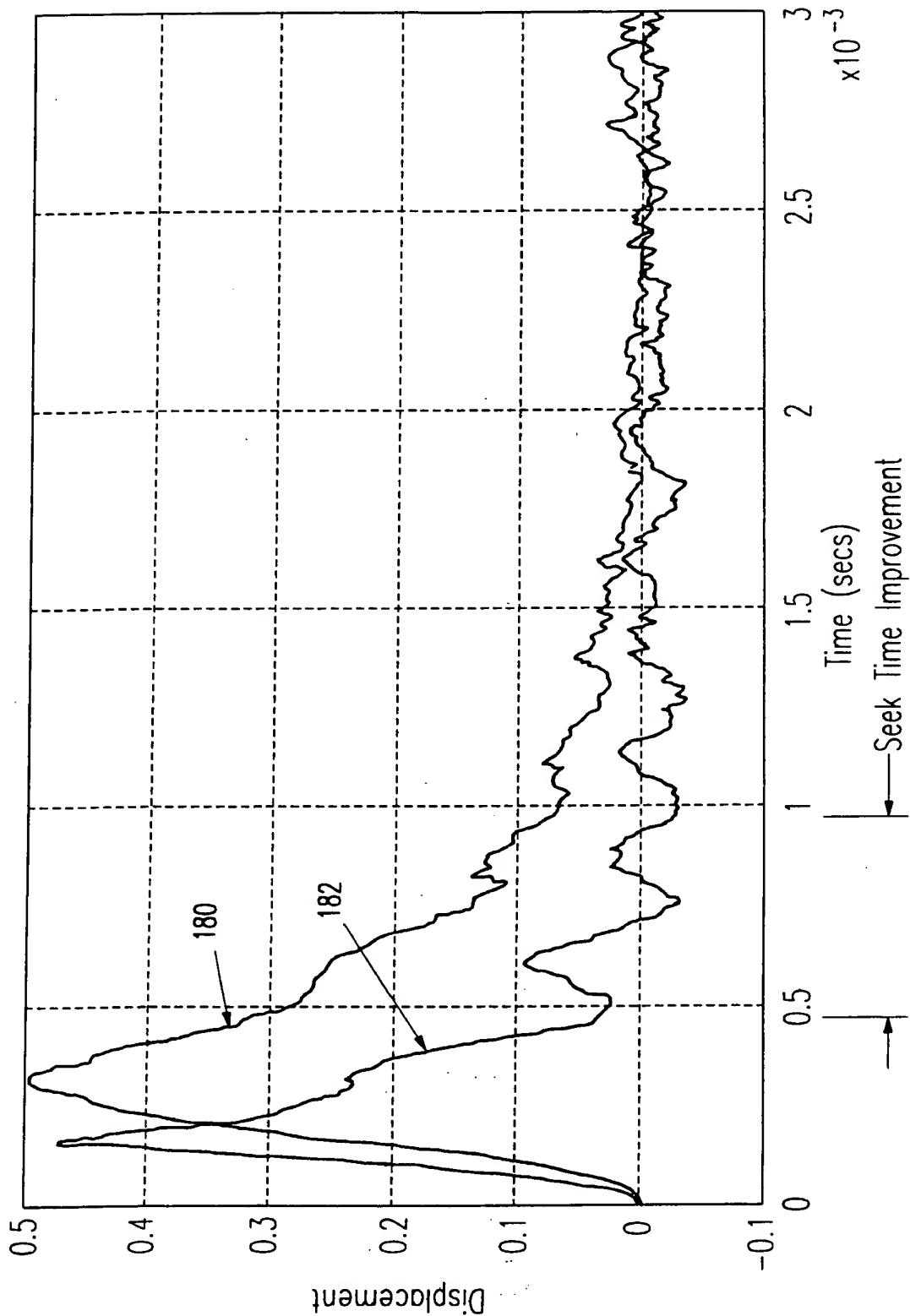


FIG. 23

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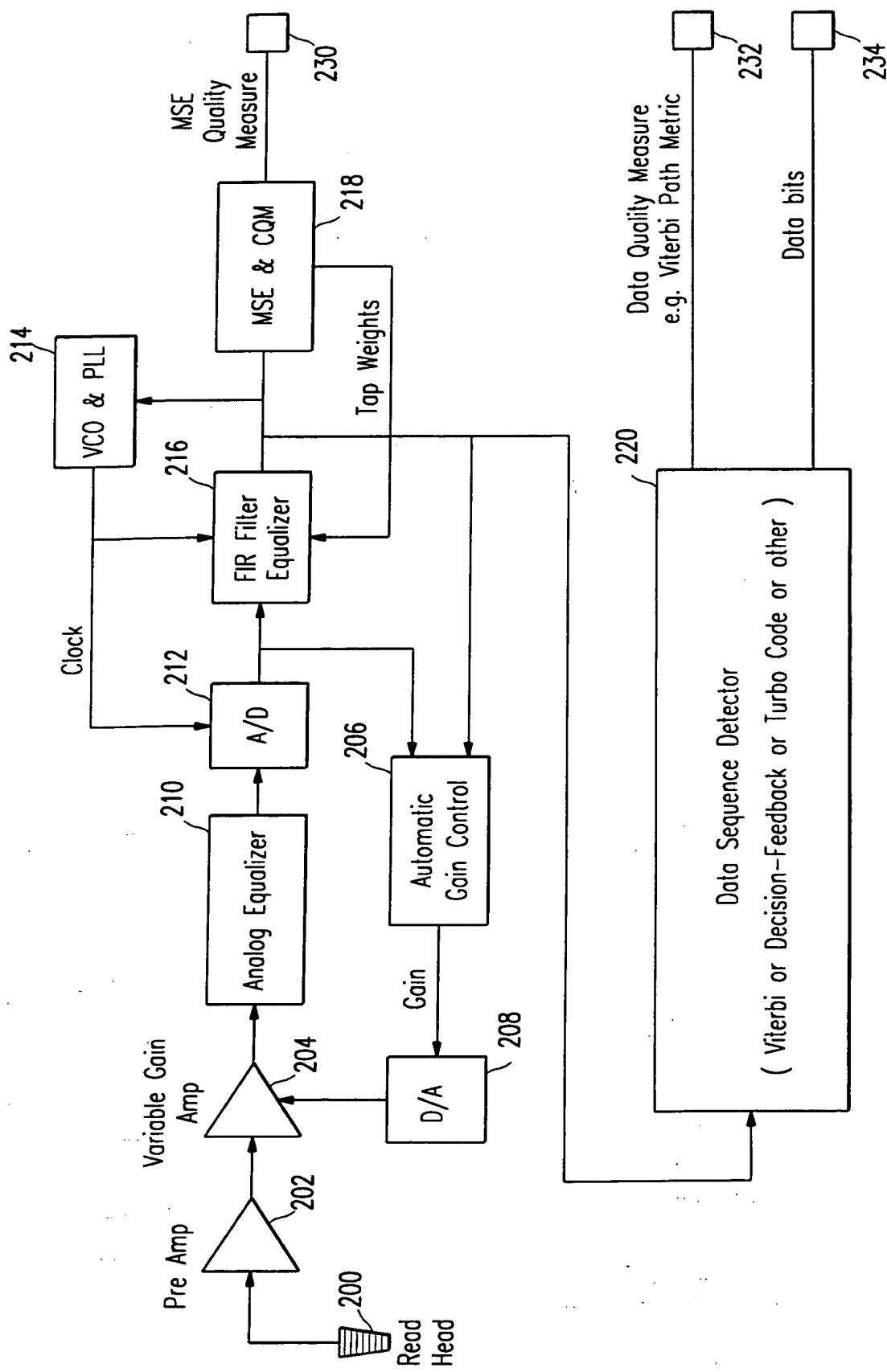


FIG. 24

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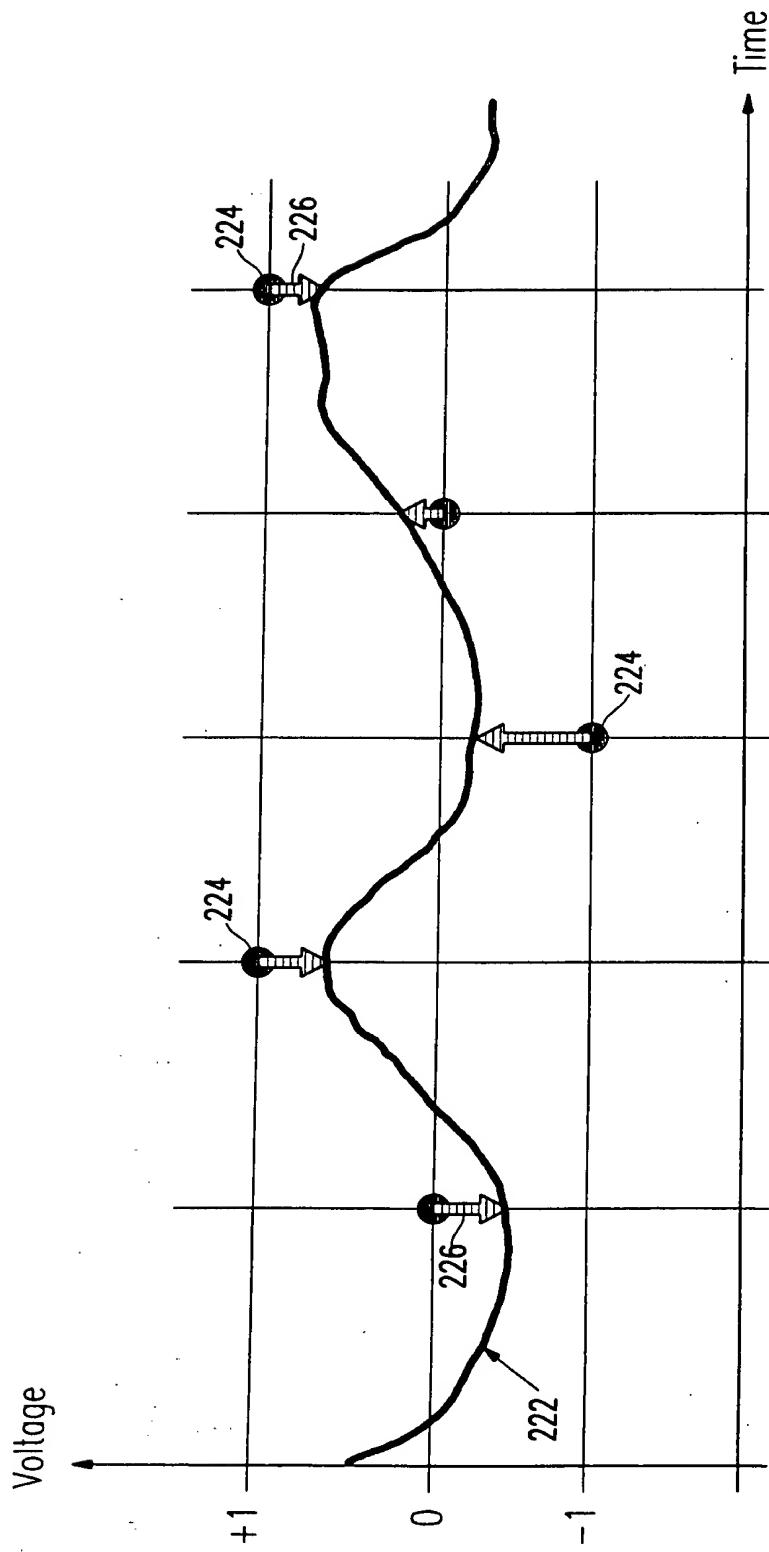


FIG. 25